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SH	1.	3,337,403	08/22/67	Zentr	er	-	1		
9	2.	4,297,349	10/27/81	Barcz	a		1		
	3.	4,385,052	05/24/83	Zackl	neim et al	1	7		
	4.	4,573,996	03/04/86	Kwiat	ek et al.	\sqcap	1/		
	5.	4,597,961	07/01/86	Elsco	m :		1/		
·	6.	4,839,174	07/13/89	Bake	r et al.		1/		
	7.	4,908,213	03/13/90	Govil	et al.		1/		
•	8.	4,943,435	07/24/90	Bake	et al.				
	. 9.	5,250,569	10/05/93	Godfr	ву				
	10	5,284,657	02/08/94	Lu et	el.				
	11.	5,288,497	02/22/94	Stanle	ey et al.				
	12.	5,622,980	04/22/97	Caldw	rell et al.				
	13.	5,662,920	09/02/97	Santu	s ·				
	14.	5,716,610	02/10/98	Jack e	at al.	1			
$\neg \vdash$	15.	5,804,203	09/08/98	Hahn	et al.				
	16.	6,123,936	09/26/00	Platz	et al.				
1	17.	6,132,394	10/17/00	Lankir	nen				
1	18.	6,182,655 B1	02/06/01	Keller	et al.	Π			y.l. 2 : - 12: 7 .
	19.	6,298,847 B1	10/09/01	Datta	et al.	Π^{-}			
In	20.	6,387,394 B1	05/14/02	Baich	val et al.			····	
13/	21.	6,418,926 B1	07/16/02	Chawl	a		1		
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		T	т	FOR	EIGN PATENT DOCUMENTS	<u> </u>	 		
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EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. NUTRI.027A	APPLICATION NO. 10/646,075	•
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	7:1	Nr.	
EXAMIN			OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
N		24.	Bassler, T.J. (1978) Hard water, food fibre, and silicon. British Medical Journal 1:919.
0		25.	Bonnefont-Rkousselot (2002) Glucose and reactive oxygen species. Curr. Opin. Clin. Nutr. Metab. Care 5:561-568.
		26.	Calver, et al. (1992) Effect of local intra-arterial N ⁰ -monomethyl-L-arginine in patients with hypertension: the nitric oxide dilator mechanism appears abnormal. J. of Hypertension. 10:1025-1031.
		27.	Carlisle, E.M. (1972) Silicon: An essential element for the chick. Science 178:619-621.
		28.	Carlisle, E.M. (1976) In vivo requirement for silicon in articular cartilage and connective tissue formation in the chick. J. Nutr. 108:478-484.
		29.	Carlisle, et al. (1978) A requirement for silicon for bone growth in culture. Fed. Proc. 37:404.
_		30.	Cartisle, et al. (1980) A silicon requirement for normal growth of cartilage in culture. Fed. Proc. 39:787.
	T	31.	Carlisle, E.M. (1980) Biochemical and morphological change associated with long bone abnormalities in silicon deficiency. J. Nutr. 110:1048-1055.
		32.	Chen, P.Y., et al. (1991) L-arginine abrogates salt-sensitive hypertension in dahl/rapp rats. J. Clin. Invest. 88:1559-1567.
	Ì	33.	Clarkson, et al. (1996) Oral L-arginine improves endothelium-dependent dilation in hypercholesterolemic young adults. J. Clin. Invest. 97(8):1989-1994.
	\exists	34.	Clowes, et al. (1977) Suppression by heparin of smooth muscle cell proliferation in injured arteries. Nature. 265:625-626.
		35.	Cooke, et al. (1994) Is NO an endogenous antiatherogenic molecule. Arteriosclerosis and Thrombosis. 14(5):653-655.
		36.	Creager, et al. (1992) L-arginine improves endothelium-dependent vasodilation in hypercholesterolemic humans. J. Clin. Invest. 90:1248-1253.
		37.	Curtis, et al. (1997) Nitric oxide supplementation or synthesis block-which is the better approach to treatment of heart disease?, Trends in Pharmacological Sciences. 18(7):239-244.
		38.	Drexler, et al. (1991) Correction of endothelial dysfunction in coronary microcirculation of hypercholesterolaemic patients by L-arginine. Lancet. 338:1548-1550.
		39.	Edelman, et al. (1990) Effect of controlled adventitial heparin delivery on smooth muscle cell proliferation following endothelial injury. Proc. Natl. Acad. Sci. USA. 87:3773-3777.
	\dashv	40.	Eisinger et al. (1993) Effects of silicon, fluoride, etidronate and magnesium on bone mineral density: a retrospective study. Magnisium Research. 6(3):247-249.
1		41.	Garson, et al. (1971) Organosilicon entities as prophylactic and therapeutic agents. J. of Pharmaceutical Sciences. 60(8):1113-1127.
		42.	Guyton, et al. (1980) Inhibition of rat aterial smooth muscle cell proliferation by heparin. Circ. Res. 46:625-634.
-		43.	Hott et al. (1993) Short-term effects of organic silicon on trabecular bone in mature ovariectomized rats. Calcif. Tissue Int. 53:174-179.
		44.	Laurant, et al. (1995) Dietary L-arginine attenuates blood pressure in mineralocorticoid-salt hypertensive rats. Clin. and Exper. Hypertension 17(7):1009-1024.
		45.	Loeper, et al. (1979) The antiatheromatous action of silicon. Atherosclerosis 33:397-408.
		46.	Loeper, et al. (1978) The physiological role of the silicon and its antiatheromatous action, in biochemistry of silicon and related problems. Bendz G, et al. Eds. Plenum Press, NY 281-296.
		47.	Luscher, T.F. (1991) Endothelium-derived nitric oxide: The endogenous nitrovasodilator in the human cardiovascular system. Eur. Heart J., 12(Suppl. E):2-11.
		48.	Maulik, et al. (1995) Nitric oxide signaling in Ischemic heart. Cardiovasc. Res. 30(4):593-601.
		49.	McPherson et al. (2002) Superoxide activates constitutive nitric oxide synthase in a brain particulate fraction. Biochemical and Biophysical Research Communications. 296:413-418.
1	1	50.	Moncada, et al. (1993) The L-arginine-nitric oxxide pathway. The New. Engl. J. of Med. 329(27):2002-2012.
18/	1	51.	Parr, R.M. (1980) Silicon, wine, and the heart. Lancet pg. 1087.

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY, DOCKET NO. NUTRI.027A	APPLICATION NO. 10/646,075
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EXAMINE INITIAL	S. B. L.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
A	52.	Rubanyi, M.D., Ph.D. (1991) endothelium-derived vasoactive factors in health and disease, in cardiovascular significance of endothelium-derived vasoactive factors. Rubanyi, G.M., ed., Future Publishing Company, Inc., NY xi-xix.
Ψ-	53.	Schwarz,et al. (1972) Growth-promoting effects of silicon in rats. Nature. 239:333-334.
	54.	Schwarz, K., Silicon (1977) Fibre, and atherosclerosis. Lancet. 454-457.
	55.	Schwarz, et al. (1977) Inverse relation of silicon in drinking water and atherosclerosis in finland. Lancet 538-539.
	56.	Schwarz, K. (1978) Significance and functions of silicon in warm-blooded animals, in biochemistry of silicon and related problems. Bendz, G. et al., Eds., Plenum Press, NY 207-230.
	57.	Svehla, G. (1979) Reaction of silicates. Vogels Textbook of Macro and Semimicro Qualitative Inorganic Analysis 5th Edition, Longman, London pgs. 350-/353.
. 1	58.	Tsao, et al. (1994) Enhanced endothelial adhesiveness in hypercholesterolemia is attenuated by L-arginine. Circulation 89(5):2176-2182.
A	59.	Wang et al. (1998) Effects of nitric oxide synthase inhibitors on systemic hypotension, cytokines and inducible nitric oxide synthase expression and lung injury following indotoxin administration in rats. J. Biomed. Sci. 6:28-35.

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